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Prior the development sparred by war, such possibilities are freezeable as plants glant, feather-light studenting materials, superpowerful linkst, rajon used time for general use, metal-wood lattinations for cubia bodies, amissifere trikin, enabproof for tanks, and many life weeders on which we now see at

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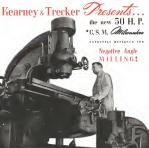
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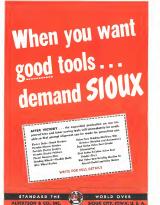
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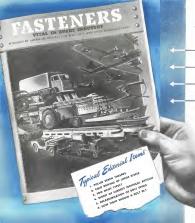




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tates to Before the sen' is required the approximate of I year's blow for the Consorting Markon workers as Aside as Librarios Markon 10. IPM-se parts along for IS workers to 1965—for 1% exclused. Last pairs and bables—I workers or host for other works of years along of district field

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HERE are two surface grinding problems that came to the Blanchard Engineering Department in one week: (1) Good a hardened sard ting 2015: In distance to a taken ness of 8,0000: For thickness. (2) Good the often of a seed sarie, 400° thick, 1235 wide.

git Good the olgon of a steel entp., 495° thick, 125° vole, and 10° long, streight and so a solerance of 2.0005°. Thirty years experience in grinding flat surfaces coabled Blanchard Engineers to solve the grinding of both of these jobs, using Blanchard vertical Surface Grinders and Blanchard Finding Wheels.

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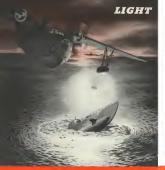


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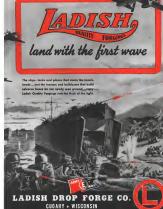


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VIATION, April, 1844



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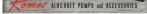


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Electronics is the essence of six transportation and the vacuum rule is the essence of electronics. Thus the record other. In carelyfires in dependability you'll find us pures filled with the consolutions of

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vices today. Then you'll see clearly how important is stemios and uniform SLECTRONIC TELESIS made Phrase tubes farse







CHUTE JUMP FROM 40,200 FEET ALTITUDE

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GLOBE STEEL TUBES CO., Milwankee 4, Wise, M. S. A.



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REBAFT COMPANY, SAN DIEGO 12 CALIFORNIA



BENDEA* Already Besley have to without all the named torville factory test for shapping power that secure has devised?

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EFNOLS PRODUCTS DIVISION OF BENDLE AVIATION CORPORATION . SOUTH BEND. INDIANA

Disposal of Government War Plants and Equipment

In the last four years, the Federal Government has spent over fitness billion dellars on war plays—twoard one-half terms as much as was port by person moveture.

Of the fitness-billion-dellar recognition.

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12. The plants and equipment offered for sale and

13 Insofar as nosable, war buildings and equipment

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For Low Priced Security-A POWERFUL POSTWAR AIR FORCE

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3 An error replacement of 25,000 new and improved 4. Sufficient funds to provide for vigorous medical development of the suffrage and excel are facult.

This should constitute the broad nulline of America's FEF-ire corr and nexasions of sixtral trace can be

It is far better to keep possit building already and the

Yesle E. Turko

GLOBAL AIR TRANSPORT AND THE FLYING BOAT'S ROLE

By GAPT. C. H. SCHILDHAUER, USNR,

Flying hosts are destined to play a major rate in global air transportetion, and the castes they will fly will be determined by estab-

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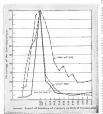
= 32,327 persons

A THREE-WAY "FIX" ON AIRCRAFT MARKETS

By E. H. CARGEN, Jr., Sets Sweet Season. and L. J. STOSEK, Montel Anniel, World Assessment Com-

JOHN POSTER, JR., Out of the confesion of widely diverseed forecasts comes a new

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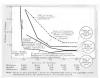
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Fig. 3. Projected level of artiflary arceiter expressions.



Fig. 4. Probable shape at military already production, based on



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AVIAT

Hope for the Aircraft Investor

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Cameras, operal equipment, form monts, limited and legisles, and le materials are among the posterior (Tiers to page 263)



Before going on its own . .



EVEN before going on its own, the Timben Bearing Equipmed C-56 Curtiss Commando Transport is carried down the assembly line by a production credic mounted on Timken Bearing Equipped content.

Timken Bearings in shop truck wheels have been savine time and cost in factories of all kinds for many years. Now, in this new form, they're beloing to keep viral simplane production on the go! The Timken Roller Bearing Company, Canton 6, Ohio.

EXPERIMENTAL DETERMINATION OF HULL DISPLACEMENT*

By ERNEST G. STOUT, Staff Engineer in always of Hydrodysamov, Consignment Stage Staff, Consolidated Falles Allegell Corp.



Results of this simple and direct experimental precedure are tramendoes services in time and marked improvement in accuracy ever the classical method for determining displessment and trim of meries hells

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Fig. 1. Expired displacement goods arrangement Statistics matted of passagement displace

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AVIATION, April 1944

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SHAR LEWIS



Fig. 7. Incorporation of irrequire half currents on the displacement results,

Kev Considerations In Pressurized-Cabin Design

By DAVID B. THURSTON Agrounded Design Engineer, Stramous Associal Corp.

Initially comparing the spherical vs. the cylindrical and the integral vs. the separate unit, this leading engiseer proceeds to range the factors of double windows, frost preventives, insulation, pressuriaing equipment, relief valves, compressors, and the veriess methods

WITH DELICATION THE TRANSPORT OF



AFTERCOOLER COOLING ARE SUPPRICHABIGE DELIVERY OUCT-PURPLACE CONTIQUE BUSY



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The cales pressure regulater valve AVIATION, And, 2044



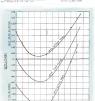
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AVIATION, April 1944

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AIRPLANE ALTITUDE (THOUSAND FEET)

Metal PLUS Plastic Makes New Aircraft Flooring

one and increased soboless in their

New used as "Mars" stream weight-series material ressires as pointing or rubber matting Revealed are steps in its develemment, tests of samples, and characteristics.





Solds 11-Physical Characteristics







AVEATION, April 1994









PROP TROUBLES NIPPED BEFORE THEY CAN BUD

By CHESTER S. BICKER, Detroit State: "Assetsor"

Featurine eight-frame-a-second comers, Acreproducts' sincrew flighttest easinesest provides common descripator that sives proper weight to book test cell vibration aboviral budrasile and field charles





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WHY THE B. F. GOODRICH DE-ICER IS THE BEST ICE-ELIMINATION DEVICE EVER DEVELOPED FOR AIRCRAFT

THE AVIATOR'S accust enough-ICE-suffered its fire mujor setheck in 1910, when B F. Goodrich Rubber Du-Lors were introduced. And ice has waged a losing buile ever some

rich De-leten lave seconfully not the most entreme leng coordinates plus bly accounted in flight for years they have been used for some opposed on the subset. Proof of their dependently in the fact that no commercial passenger place using De-leten in known to have been lose become of wing ice formance. Tooks the depens are review on Attention New Yorkshops.

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NO GAS INZARDS: Since nothing but one art flows through a De fore system, there is no danger of spain gives leaking free the cabes or passenger compactnesses. MAXIMUM PRIL CAPACITY, Since De-five phending requires

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Thus, De-Letes sifeed complete presention of cannot leading odges, operate sidely, all-ney listle weighs, trace only neighbile drug symmetrically described Provide through, years of service, and supproved commonwing to the control of the control

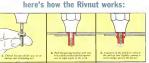
This diagram shows how B. F. Goodrich De-Icers
PROTECT ALL CRITICAL AREAS



MAKERS OF R. F. GOODRICH TIRES AND OVER RO RURRER AND SYNTHETIC RURRER PRODUCTS FOR AIRPLANES

AVAILABLE FREE FOR GROUP TRAINING
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SIMPLE! FAST!

FOOL-PROOF!

GET THE FACTS ... FREE! weights, strength, grip ringes, oz. Address

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AVIATION, Aug. 1944



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AVIATION, Agel, 1844





Approach to the Problem Of Radio Precipitation Static FART (--TIMOR

First of an important two-part series adventing a new theory on precipitation static and (Part II) discussing existing methods of

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(Tare to page 262)

Fig. 6 Sholed lose actoms, and parmelly and an exceed for other infection.

ANALYTIC GEOMETRY FOR SPEEDIER WING LOFTING

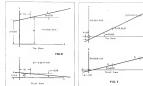
By R. W. FEENY, Ant Engineer Northry Alexant Co.

Application of a simple methoradical method to lefting of separalial lines, such as for seatrel cables, bydrastic lines, stringers, sper mold lines, etc.

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AVIATION, April 1944



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Store

FIG. 11



Production-Line Remedies For Hydraulic Headaches

By COMDE, HARRY J. MARX, USING

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AVIATION, April, 1919





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Fig. 1. First, on consists stored in bases or shafest for present designs flowing high blocking (Birthall). I measure which is recovered of accomply with the result includes along their first plays decopied down names the

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Fig. 4. To small stretching, seather is and that is photing part in walking State (English)





AVIATION, Aust 1914

METHODS FOR FORMING SHFFT ALUMINUM



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"Near Infrared" Cuts Bake-Dry-Preheat Time

By PAUL H. KRUPP, Judges Joseph Storl Com-Renairies only minutes where bears more were meded, this beetjeb process is soving threspeds of wortime man-hours. And it promites to speed many presenting operations.

THE NAME AND ADDRESS THAT APPRIL TO A PRODUCTION OF ACTUAL PROPERTY. a respect of the parts which make un-



Intellige a New Infrared would be Despites of Real's standar for harting











Continued's obying plant at Rackers







Stretch-Rend Unit Simplifies Metal Work

By J. S. NIELSON, Myr. Mandastroby Standards & Equatoretal Treds. and C. B. MITCHELL Summer Summer's Markey & Tarl Street.

in forming strips, extrasions, and beet-up sections.









STEPPING UP OUTPUT

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Another sateresing use of Teners

So effective have Yexaso labelcano East Gad Street, New York U. N. Y. other issued

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TEXACO CUTTING, SOLUBLE AND HYDRAULIC OILS EXAMINES





This pertinent erticle, graphically Illustrated with nearly a score of shelps and breekdown shelphes carefully details the amerecad methods used is heapley there important accessories in first-class

OF SERVICING CUNO FILTERS

werking condition.

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Yesle of the filter curtofile are elseed means of spiritle) passes observe Musika Sta renorm Improvi stat Seem Automor diale. On

Fig. 1. Dispressed rice of 60to parts.

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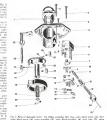
TUNE IN FEED ALLEN EYEST SUNDAY NIGHT ... CAS. . A. HELF WIN THE WAS AT STRUKKING SAFTY DEGNE FEDRATUR



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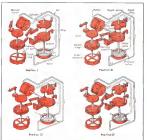






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Fig. 12. Spensor wrench used for hydronic lead returning may. This is not capabled with labor.

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VIXION April 1994

FIELD MAINTENANCE OF BOSCH MAGNETOS

Servicing methods—the correct enermore primary in assuring day-in-day-out magnete reliability. This therough article corefaily defails the requisite steps of impaction, reserval, installation, limits and resolvent training of these services.

General reconstructions are personal resident of a classical abundance of the companion of

Safety grounding spring

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Fig. 2 EPvc1 of healfabrit Inferbative. Case (norm) above boven softens where follower blood note:

ATTATION, April, 1944



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Maintenance





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TWO METALWORK UNITS DO WORK OF TWENTY

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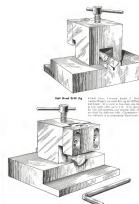
MAINTENANCE NOTEROOK



Propeller Blade Rock

Brake Drum Grindley Machine





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Simple Bending Jig Seves Time

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Reasal Shork "Mile"

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Certinestal Air Lines

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AND ATTON, AUG. 1944







LOOKING AHEAD TO AIR CARGO MARKETS

By ROBERT K. KINZEL

Consensative transport business wen't "come in ever the transport"ciriless must offer high-colliber soles and service to evercome cost differentials as well as to resulterest directional flow of month.

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can be brought down to about Mr. a toncall or crought down to about 400, a con-

This is itself will be no small feat. If ATTATION, April, 2044



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Bull's-Eve Aim Makes 'Em Bombardiers

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Armstrong Whitworth "Albemarle" Reconnaissance Bomber

Following series of production difficulties, 1929-design croft joins RAF ranks with new observation, transport, and elister-law dation.

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"Tony" Is Nips' 109



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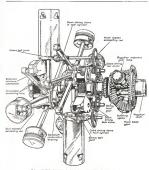












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Britain Made 98 888 Planes Since Start of War

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PHYSICAL AND CHEMICAL PROPERTIES MEDAL

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THE SHEFFIELD CORPORATION Dayton I, Ohio, U.S.A.

February Production: Record 350 Planes Per Day for 8,760 Total; Weight Up 4 Percent

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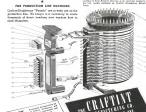
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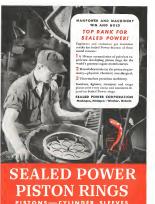
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ATTATION, April, 1986

A710X, April, 1966

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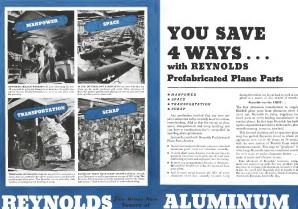
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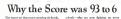
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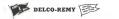
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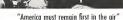
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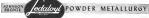
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thereases (T) to use Man presented are successfully held with Vers equal ST: A C8 equal to 3T is absolute minimum.

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A = 0D of eigen + 109 And, to a proton head application, with "B" represerting resent disensety or ID of perking



II. Recess Death

2. Total stocking height

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Wer make you taked in sales of 2 to 5, both 6 proposity present were preventing and tested the sales of Z to E, book 6 generally recommonded. Whate now Ver per set would noted many applications. the authorises New and as a versions for the new that is no conduct such the medicans, and provide additional scaling lips. Resistance as absence. In determining the proper number for each cate, the following derives should be considered. Proteins. Since one of the advantages of the Ver parking in her fellow

Total stacking heats - number of Vocs × 5 To determine the heads of the formals admire, it is first

(the high a radius at the aper of the Ver.)

Receive the 110° websited negle gives a Character V at
the actions limite and outside Characters between the 50° The discrepance K is optional, with 14 CB to desired more On the seals adopter ring, the radge G is equal to one half its cross section. This gives a dissension X which is

X = MOCE De dimensos F u cotacad, with F - T recommended. or averable of its admissible to specify up to 6 Years per set, or a new Recent length -K + (K - S - Y) + S (some number of Vers) +X + ESee Greton & Knight Insert in SWEET's File for Product Designers

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